

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 2002-321509
 (43) Date of publication of application : 05.11.2002

(51) Int. CI.

B60C 11/12

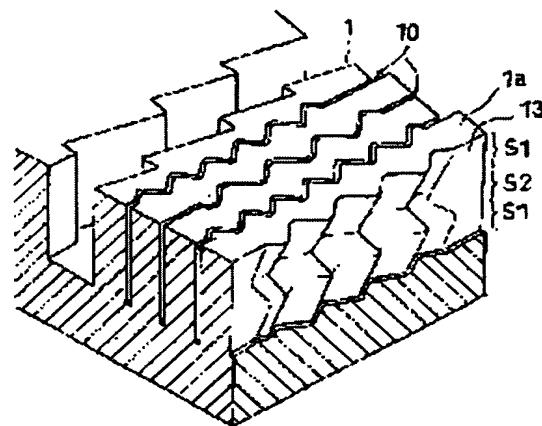
(21) Application number : 2001-131164 (71) Applicant : TOYO TIRE & RUBBER CO LTD
 (22) Date of filing : 27.04.2001 (72) Inventor : OHASHI TOSHIYUKI

(54) PNEUMATIC TIRE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a pneumatic tire that properly suppresses collapse of a block, while making the best use of an advantage of a wavy sipe, and offers a good braking performance and uneven wear resistance on an icy road surface reflecting a highly uniform road contacting pressure within the block.

SOLUTION: There is provided a pneumatic tire provided with a tread pattern having thereon a flat portion, in which at least one sipe 10 is formed. This tire is characterized in the following point. Namely, the sipe 10 is provided with a first wavy sipe portion S1 and a second wavy sipe portion S2. The first wavy sipe portion S1 is a train of protrusions and indentations formed on an inner wall surface 13 of the sipe that is tilted in relation to a normal direction of a flat portion tread surface 1a. The second wavy sipe portion S2 is a train of protrusions and indentations that is tilted in a direction opposite to the tilting direction of the train of protrusions and indentations of the first sipe portion S1. The two sipe portions are connected alternately to each other in a depth direction of the sipe.



LEGAL STATUS

[Date of request for examination]	12.02.2003
[Date of sending the examiner's decision of rejection]	
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]	
[Date of final disposal for application]	
[Patent number]	3504632

[Date of registration] 19.12.2003

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998, 2003 Japan Patent Office